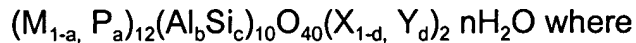


IN THE CLAIMS:

Cancel Claims 64-90 without prejudice and add Claims 92-115:

Claims 1-90. Canceled

91. (Previously Presented) Zeolite N having a composition according to the formula



M = alkali metal or ammonium;

P = alkali metal, ammonium or metal cations exchanged in lieu of alkali metal or ammonium

X = halide and Y is an anion and

$$0 \leq a \leq 1, 1 \leq c/b \leq \mu, 0 \leq d \leq 1 \text{ and } 1 \leq n \leq 10$$

with the proviso that when $a = 0$, $b = 1$, $c = 1$, $d = 0$, $X = Cl$, $M \neq K$.

92. (New) Zeolite N as claimed in claim 91, having a BET surface area greater than $1m^2/g$.

93. (New) Zeolite N as claimed in claim 92 having a BET surface area between $1m^2/g$ and $150m^2/g$.

94. (New) Zeolite N having a structure as claimed in claim 92 having a proportion of external surface area to internal surface area of greater than 1%.

95. (New) Zeolite N as claimed in claim 94 having a proportion of external surface area to internal surface area of greater than 5%.

96. (New) Zeolite N as claimed in claim 91 having an X-ray diffraction pattern which has a high background intensity of greater than 5% of a maximum peak height

between the region $25^{\circ} < 2\theta < 70^{\circ}$.

97. (New) Zeolite N as claimed in claim 91 when used for exchange of ammonium ions in solution.

98. (New) Zeolite N as claimed in claim 91 when used for exchange of ammonium ions in the presence of alkali metal and/or alkaline earth metal ions in solution.

99. (New) Zeolite N as claimed in claim 91 having a cation exchange capacity ranging from 100 meq per 100g to 700 meq per 100g for ammonium ions with concentrations between less than 1 mg/L to greater than 10,000 mg/L.

100. (New) Zeolite N as claimed in claim 91 when used for exchange of metal ions in solution.

101. (New) Zeolite N as claimed in claim 91 when used for exchange of metal ions in the presence of alkali metal or alkaline earth metal ions in solution.

102. (New) Zeolite N as claimed in claim 91 when used for adsorbing ammonia gas in the temperature range 0°C to 300°C .

103. (New) Zeolite N as claimed in claim 91 when used for adsorbing ammonia gas in the temperature range 0°C to 300°C in the presence of water.

104. (New) Zeolite N as claimed in claim 91 when used for absorbing oil.

105. (New) Zeolite N as claimed in claim 104 when used for absorbing oil greater than 50g of oil per 100g of Zeolite N.

106. (New) Zeolite N as claimed in claim 91 when used for removing anions from wastewater.

107. (New) Zeolite N as claimed in claim 91 when used in an ammonium form to have a capacity to re-exchange alkali metal ions from solutions containing hydroxyl ions ranging in concentration from 0.1 M to 2.0 M.
108. (New) Zeolite N as claimed in claim 91 having a removal rate of ammonium ion ranging between 50-100% from ammonium loaded Zeolite N using a regeneration solution containing hydroxyl ions.
109. (New) Zeolite N as claimed in claim 91 when used to re-exchange ammonium ions and/or to retain high selectivity for ammonium ions after regeneration with a solution containing hydroxyl ions.
110. (New) Zeolite N as claimed in claim 91 when used to kill gram positive or gram negative bacteria.
111. (New) Zeolite N as claimed in claim 91 where c/b is greater than 1.
112. (New) Zeolite N as claimed in claim 111 where c/b has an upper value of 3.
113. (New) Zeolite N as claimed in claim 111 where c/b has an upper value of 5.
114. (New) Zeolite N as claimed in claim 91 where Y is hydroxyl or halide.
115. (New) Zeolite N as claimed in claim 114 where Y is chloride.